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IN THE CLAIMS

*Please add new claims 83-98 as follows, and please amend claim 29, 41, 49, 51, 54, 56, 78, 81 and 82 as follows. A copy of all pending claims follows with each claim including a status identifier pursuant to the proposed revisions to 37 CFR 1.121:*

Claims 1-28 (Previously Canceled).

29. (Currently Amended) An ~~electric~~ electric motor system, comprising:  
at least a first electric motor comprising a first rotor and a first stator;  
the first rotor being mechanically coupled to an engine;  
at least a second electric motor comprising a second rotor and a second stator;  
the second rotor being mechanically coupled to a mechanical aggregate; and  
the first and second stators being non-movably coupled to a casing; and  
an electronic power system,  
wherein the first electric motor and the second ~~electrical~~ electric motor are electrically coupled to one another via the electronic power system in order to exchange electric power at a freely selectable voltage level.

30. (Previously Added) The electric motor system of claim 29, wherein at least one

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of the first and second motors is of a three-phase type.

31. (Previously Added) The electric motor system of claim 29, wherein the first rotor is mechanically coupled to the engine via at least one rotating shaft.

32. (Previously Added) The electric motor system of claim 29, wherein the engine comprises an internal combustion engine.

33. (Previously Added) The electric motor system of claim 32, wherein the first rotor is mechanically coupled to the internal combustion engine via at least one rotating shaft.

34. (Previously Added) The electric motor system of claim 29, wherein the second rotor is mechanically coupled to the aggregate via a rotating part.

35. (Previously Added) The electric motor system of claim 34, wherein the aggregate comprises at least one of a turbo-engine and a turbocharger.

36. (Previously Added) The electric motor system of claim 29, wherein the aggregate comprises at least one of a turbo-engine and a turbocharger.

37. (Previously Added) The electric motor system of claim 29, further comprising a gearbox, wherein the first electric motor is mechanically connected to the engine via the gearbox.

38. (Previously Added) The electric motor system of claim 29, wherein the first electric motor is at least one of integrated with the engine and integrated with a flywheel of the engine.

39. (Previously Added) The electric motor system of claim 29, wherein the engine comprises a flywheel and wherein the first electric motor is structurally integrated with the flywheel.

40. (Previously Added) The electric motor system of claim 29, wherein the first electric motor is connected to at least one of:

at least one external electric circuit, and  
a machine's mains.

41. (Currently Amended) The electric motor system of claim 29, ~~further comprising~~

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~~a casing~~, wherein each of the first and second motors are mounted in the casing.

42. (Previously Added) The electric motor system of claim 29, wherein at least one of the first and second electric motors is one of an asynchronous type motor, a synchronous type motor, and a reluctance type motor.

43. (Previously Added) The electric motor system of claim 29, wherein an axis of the first rotor is aligned with an axis of the second rotor, such that the first and second rotors of the first and second electric motors share a common axis of rotation.

44. (Previously Added) The electric motor system of claim 29, wherein the first rotor comprises one of an inner rotor and an outer rotor.

45. (Previously Added) The electrical motor system of claim 29, wherein the second rotor comprises one of an inner rotor and an outer rotor.

46. (Previously Added) The electrical motor system of claim 29, wherein the first rotor comprises an inner rotor and the second rotor comprises an outer rotor, each rotating about a common axis.

47. (Previously Added) The electrical motor system of claim 29, wherein the first rotor comprises an inner rotor and the second rotor comprises an outer rotor.

48. (Previously Added) The electrical motor system of claim 29, further comprising a mutual stator plate system.

49. (Currently Amended) The electrical motor system of claim 48, wherein the first and second stators are coupled to the mutual stator plate system ~~comprises at least one first stator and at least one second stator~~, the ~~at least one~~ first stator forming part of the first motor and the ~~at least one~~ second stator forming part of the second motor.

50. (Previously Added) The electrical motor system of claim 48, wherein each of the first and second rotors are rotatable with respect to the mutual stator plate system.

51. (Currently Amended) The electric motor system of claim 29, wherein the electronic power system comprises at least one of a component and an external electric circuit, which is mounted in a the casing.

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52. (Previously Added) The electric motor system of claim 51, wherein the casing contains at least one of the first and second motors.

53. (Previously Added) The electric motor system of claim 51, wherein the casing surrounds at least one of the first and second motors.

54. (Currently Amended) The electric motor system of claim 29, ~~further comprising a casing for housing~~ wherein the casing houses at least one of the first and second motors, wherein the casing includes one of a cooling system and a liquid cooling system.

55. (Previously Added) The electric motor system of claim 29, wherein the electronic power system supplies to a mains connection at least one of a direct current, an alternating current, and a three-phase current.

56. (Currently Amended) The electric motor system claim 29, ~~wherein each of the first and second motors comprise a stator, and~~ wherein at least one of the first and second stators includes at least two winding systems.

57. (Previously Added) The electric motor system of claim 56, wherein the at least

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two winding systems are galvanically separated from one another.

58. (Previously Added) The electric motor system of claim 56, wherein the at least two winding systems are coupled magnetically with a main flux of at least one of the first and second motors.

59. (Previously Added) The electric motor system of claim 56, wherein the at least two winding systems are connected to separate electronic power circuits.

60. (Previously Added) The electric motor system of claim 59, wherein the separate electronic power circuits are galvanically separated from one another.

61. (Previously Added) The electric motor system of claim 56, wherein at least one of the at least two winding systems is connected via a rectifier bridge to at least one of a direct current supply, a battery-fed mains, and a machine's mains, whereby power can be exchanged in one direction.

62. (Previously Added) The electric motor system of claim 56, wherein at least one of the at least two winding systems is connected via a transistor bridge to at least one of a

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direct current supply, a battery-fed mains, and a machine's mains, whereby power can be exchanged in both directions.

63. (Previously Added) The electric motor system of claim 56, wherein at least one of the first and second motors functions as a generator and as a motor.

64. (Previously Added) The electric motor system of claim 63, wherein the generator is configured to charge a connected machine's mains.

65. (Previously Added) The electric motor system of claim 56, wherein at least one of the first and second motors functions as a generator and as a starter.

66. (Previously Added) The electric motor system of claim 65, wherein the first motor functions as the generator and as the starter, and wherein the starter is mechanically coupled to the engine.

67. (Previously Added) The electric motor system of claim 56, each of the at least two winding systems are configured to allow a galvanically separable electric power exchange to occur between circuits connected to the winding systems.



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68. (Previously Added) The electric motor system of claim 56, wherein the at least two winding systems are controlled via electronically controlled switches.

69. (Previously Added) The electric motor system of claim 68, wherein the electronically controlled switches are configured to take over control of electric parameters from the at least two winding systems.

70. (Previously Added) The electric motor system of claim 69, wherein the at least two winding systems are coupled to non-controllable electronic power elements.

71. (Previously Added) The electric motor system of claim 70, wherein the non-controllable electronic power elements comprise diodes.

72. (Previously Added) The electric motor system of claim 56, wherein each of the at least two winding systems is galvanically independent of the other winding system and is connected with electromechanical function groups on generally different voltage levels.

73. (Previously Added) The electric motor system of claim 56, wherein the at least two winding systems are closely magnetically coupled such that an electromagnetic power

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exchange occurs between the at least two winding systems independent of rotor rotation according to a transformer principle.

74. (Previously Added) The electric motor system of claim 56, wherein the at least two winding systems are weakly magnetically coupled such that a slight electromagnetic influence results on the at least two winding systems.

75. (Previously Added) The electric motor system of claim 56, wherein a freely selectable electromagnetic power exchange can occur between the at least two winding systems and a rotor shaft connected to one of the first and second rotors.

76. (Previously Added) The electric motor system of claim 75, wherein the freely selectable electromagnetic power exchange is adapted to occur by controlling electromagnetic parameters.

77. (Previously Added) The electric motor system of claim 76, wherein the electromagnetic parameters comprise at least one of currents and flux linking of at least one of the at least two winding systems.

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78. (Currently Amended) The electric motor system of claim 29, wherein each of the first and second electric motors are mounted in a the casing.

79. (Previously Added) The electric motor system of claim 29, wherein each of the first and second electric motors comprise one of an asynchronous motor, a synchronous motor and a reluctance motor.

80. (Previously Added) The electric motor system of claim 29, wherein each of the first and second rotors rotate with respect to a common axis.

81. (Currently Amended) An electric motor system, comprising:

at least a first electric motor comprising a first rotor and a first stator;

the first rotor being mechanically coupled to an engine;

at least a second electric motor comprising a second rotor and a second stator;

the second rotor being mechanically coupled to a mechanical aggregate;

the first stator being coupled to the second stator; ~~and~~

the first and second stators being non-movably mounted to a casing; and

an electronic power system,

wherein the first electric motor and the second electric motor are electrically coupled

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to one another via the electronic power system in order to exchange electric power at a freely selectable voltage level.

82. (Currently Amended) An electric motor system, comprising:

a casing;

at least a first electric motor comprising a first rotor and a first stator system;

the first rotor being mechanically coupled to an engine;

at least a second electric motor comprising a second rotor and a second stator system;

the second rotor being mechanically coupled to a mechanical aggregate;

~~the first stator being coupled to the second stator;~~

each of the first stator system and the second stator system being coupled to the casing, wherein the first and second stator systems are prevented from rotating relative to the casing; and

an electronic power system,

wherein the first rotor and the second rotor rotate about a common axis, and

wherein the first electric motor and the second electric motor are electrically coupled to one another via the electronic power system in order to exchange electric power at a freely selectable voltage level.

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83. (New) The electric motor system of claim 82, wherein the first and second stators comprise first and second windings, wherein at least one of the first and second windings comprises a groove or air-gap winding.

84. (New) The electric motor system of claim 82, wherein the first stator at least partially surrounds the first rotor and wherein the second rotor at least partially surrounds the second stator.

85. (New) The electric motor system of claim 82, further comprising at least one stator holding member, wherein the first and second stators are coupled to the at least one stator holding member.

86. (New) The electric motor system of claim 82, further comprising first and second circumferentially arranged stator holding members, the first stator being mounted on an outer circumferential surface of the first stator holding member and the second stator being mounted on an inner circumferential surface of the second stator holding member.

87. (New) The electric motor system of claim 29, wherein the first stator comprises a first stator winding and wherein the second stator comprises a second stator winding.

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88. (New) The electric motor system of claim 87, wherein at least one of the first and second stator windings comprises a groove or air-gap winding.

89. (New) The electric motor system of claim 29, wherein the first stator at least partially surrounds the first rotor and wherein the second rotor at least partially surrounds the second stator.

90. (New) The electric motor system of claim 29, wherein the first rotor at least partially surrounds the first stator and wherein the second stator at least partially surrounds the second rotor.

91. (New) The electric motor system of claim 29, further comprising at least one stator holding member, wherein the first and second stators are coupled to the at least one stator holding member and wherein the at least one stator holding member is coupled to the casing.

92. (New) The electric motor system of claim 29, further comprising at least one circumferentially arranged stator holding member, the first stator being mounted on an outer circumferential surface of the at least one circumferentially arranged stator holding member and the second stator being mounted on an inner circumferential surface of the at least one

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circumferentially arranged stator holding member.

93. (New) The electric motor system of claim 29, wherein the first and second stators are arranged to face in opposite directions relative to at least one circumferentially arranged stator holding member.

94. (New) The electric motor system of claim 81, wherein the first stator includes a winding that at least partially surrounds an outer surface of at least one circumferentially arranged stator holding member and wherein the second stator includes a winding that is at least partially surrounded by an inner surface of the at least one circumferentially arranged stator holding member.

95. (New) The electric motor system of claim 82, further comprising at least one circumferentially arranged stator holding member, the first stator including a first winding that is disposed adjacent an outer circumferential surface of the at least one stator holding member and the second stator including a second winding that is disposed adjacent an inner circumferential surface of the at least one stator holding member.

96. (New) The electric motor system of claim 29, wherein the first rotor comprises a

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first axis and wherein the second rotor comprises a second axis, and wherein the first and second axes are spaced apart from one another.

97. (New) The electric motor system of claim 81, wherein the first rotor comprises a first axis and wherein the second rotor comprises a second axis, and wherein the first and second axes are spaced apart from one another.

98. (New) The electric motor system of claim 82, wherein the first rotor comprises a first axis and wherein the second rotor comprises a second axis, and wherein the first and second axes are spaced apart from one another.